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Dispose each yellow tip in the solid **radioactive** "hot" **waste container**. ...
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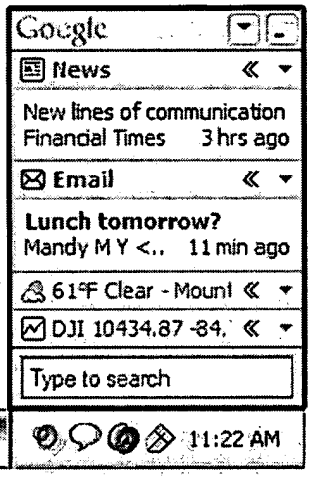
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container used to seal the reference sources (this may be the case in a real **waste** drum) could make a. difference in the final **assay results**. ...
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Research Animal **Review** - Vol.2 No. 1 - Winter 2000 - Page 2
... reporting and record-tracing logs, and a digital photo record of the **assay results**. Selection of the type of **assay** whether Southern blot, slot blot, ...
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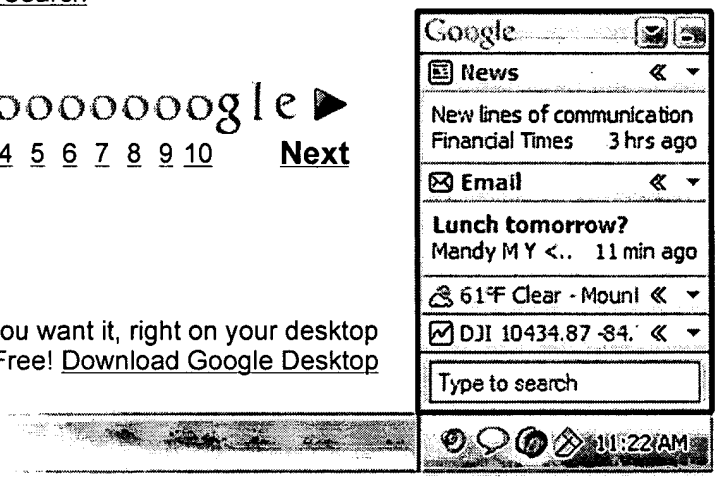
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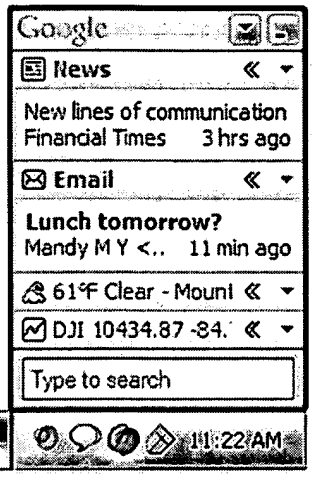
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1 Logistics/transportation applications: Simulation of logistics systems: simulation model for shipment of waste to the waste isolation pilot plant

Cathy J. Barnard, David H. Van Haaften

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(224.35 KB) Additional Information: full citation, abstract

The United States Department of Energy has agreed to ship 15,000 drums of cold war legacy waste from the Idaho National Engineering and Environmental Laboratory (INEEL) to the Waste Isolation Pilot Plant (WIPP). This waste must undergo characterization and certification prior to shipment. The processes required to characterize and certify waste for shipment to WIPP are extremely complex. A simulation model was developed to analyze drum throughput in these various processes. Inputs to the model i ...

2 Hanford solid waste management system simulation

Steven R. Shaver, Lorna L. Armacost, Heidi S. Konynenbelt, Robert R. Wehrman

December 1994 **Proceedings of the 26th conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(529.05 KB) Additional Information: full citation, references, index terms

3 Tru waste system models

Frank R. Hand, Gerald W. Barr

December 1994 **Proceedings of the 26th conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(558.06 KB) Additional Information: full citation, references, index terms

4 Logistics/transportation applications: Simulation of large supply chains: simulation of waste processing, transportation, and disposal operations

Janis Trone, Angela Guerin, Amber D. Clay

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(268.77 KB) Additional Information: full citation, abstract, references, citings

In response to the accelerated cleanup goals of the Department of Energy, Sandia National Laboratory (Sandia) has developed and utilized a number of simulation models to represent the processing, transportation, and disposal of radioactive waste. Sandia, in conjunction with Simulation Dynamics, has developed a Supply Chain model of the cradle to grave management of radioactive waste. Sandia has used this model to assist the Department of Energy in developing a cost effective, regulatory complian ...

5 Server performance and scalability: A smart hill-climbing algorithm for application server configuration

Bowei Xi, Zhen Liu, Mukund Raghavachari, Cathy H. Xia, Li Zhang
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(373.43 KB) Additional Information: full citation, abstract, references, index terms

The overwhelming success of the Web as a mechanism for facilitating information retrieval and for conducting business transactions has ledto an increase in the deployment of complex enterprise applications. These applications typically run on Web Application Servers, which assume the burden of managing many tasks, such as concurrency, memory management, database access, etc., required by these applications. The performance of an Application Server depends heavily on appropriate configuration. Co ...

Keywords: automatic tuning, gradient method, importance sampling, simulated annealing, system configuration

6 Automation of the radioisotope accountability system

Elaine L. Lahners
February 1965 **Communications of the ACM**, Volume 8 Issue 2
Publisher: ACM Press
Full text available: pdf(609.27 KB) Additional Information: full citation, references, index terms

7 Naltrexone blocks RFR-induced DNA double strand breaks in rat brain cells

Henry Lai, Monserrat Carino, Narendra Singh
November 1997 **Wireless Networks**, Volume 3 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(401.54 KB) Additional Information: full citation, abstract, references, index terms

Previous research in our laboratory has shown that various effects of radiofrequency electromagnetic radiation (RFR) exposure on the nervous system are mediated by endogenous opioids in the brain. We have also found that acute exposure to RFR induced DNA strand breaks in brain cells of the rat. The present experiment was carried out to investigate whether endogenous opioids are also involved in RFR-induced DNA strand breaks. Rats were treated with the opioid antagonist naltrexone (1 mg/kg, ...

8 In pursuit of desktop evolution: User problems and practices with modern desktop systems

Pamela Ravasio, Sissel Guttormsen Schär, Helmut Krueger
June 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 2
Publisher: ACM Press
Full text available: pdf(2.33 MB) Additional Information: full citation, abstract, references, index terms

This study deals with the problems users encounter in their daily work with computers

and the typical practices that they employ. Sixteen daily computer users were interviewed about their habits and problems that they encountered during document classification and retrieval. For both these areas, we provide an overview of identified user practices and a citation-based analysis of the problems users encountered, including those related to the use of the screen real estate (the actual desktop). Tw ...

Keywords: Desktop metaphor, document classification, document retrieval, improvements., personal computer, user practices, user problems, user study

9 The environmental contribution of personal computers: a state of the art report
Yoni Perl, Edgar Whitley
December 1995 **ACM SIGCAS Computers and Society**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(307.01 KB) Additional Information: full citation, index terms

10 A challenge to the computer fraternity: computerized counting in veterinary parasitology
Lindley C. Paxton
April 1978 **Proceedings of the 16th annual Southeast regional conference**
Publisher: ACM Press
Full text available: pdf(169.21 KB) Additional Information: full citation, references

11 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)
Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation ANSS '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.45 MB) Additional Information: full citation, references, index terms

12 Are virtual worlds worth it?
James Hague
May 2000 **ACM SIGGRAPH Computer Graphics**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(1.30 MB) Additional Information: full citation, citings, index terms

13 Computational structure of a performance assessment involving stochastic and subjective uncertainty
Jon C. Helton
November 1996 **Proceedings of the 28th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(803.01 KB) Additional Information: full citation, references, citings

14 The impact of query structure and query expansion on retrieval performance
Jaana Kekäläinen, Kalervo Järvelin

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

15 Simulation used to qualify nuclear waste glass for disposal
Paul W. Reimus, William L. Kuhn
December 1987 **Proceedings of the 19th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(688.51 KB) Additional Information: full citation, abstract, references, index terms

A hypothetical vitrification system was simulated to provide quantitative estimates of the errors associated with controlling and predicting the composition of the nuclear waste glass produced in the system. The composition of the glass must fall within certain limits in order to qualify for permanent geologic disposal. The estimated error in predicting the concentrations of various constituents in the glass was 2% to 8%, depending on the strategy for sampling and analyzing the feed and on ...

16 Predicting environmental restoration activities through static simulation
Terry L. Ross, Dale A. King, Mark L. Wilkins, Mary F. Forward
December 1994 **Proceedings of the 26th conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(675.74 KB) Additional Information: full citation, references, index terms

17 Burst tries: a fast, efficient data structure for string keys
April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(324.84 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such as counters. We propose a new data structure, the burst trie, that has significant advantages over existing options for such applications: it uses about the same memory as a binary search tree; it is as fast as a trie; and, while not as fast as a ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

18 Satellite-based information services: Tunable reliable multicast for periodic information dissemination
Tina Wong, Thomas Henderson, Randy H. Katz
January 2002 **Mobile Networks and Applications**, Volume 7 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(420.83 KB) Additional Information: full citation, abstract, references, index terms

Existing reliable transport protocols for periodic information dissemination ignore application semantics while attempting to be 100% reliable. "Application Level Framing" (ALF) suggests that taking application semantics into account when designing transport protocols can result in performance that is highly optimized for the network. We apply this principle in designing a policy-based TUNAble semi-reliable multicast protocol

(TUNA) for periodic information dissemination. Specifically, TUNA is n ...

Keywords: bandwidth constraint, content delivery, power constraint, reliable multicast, wireless device

19 Model reliability and software quality assurance in simulation of nuclear fuel waste management systems

Tuncer I. Ören, Maurice S. Elzas, Grant Sheng
October 1985 **ACM SIGSIM Simulation Digest**, Volume 16 Issue 4
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references

As is the case with all scientific simulation studies, computerized simulation of nuclear fuel waste management systems can introduce and hide various types of errors. Frameworks to clarify issues of model reliability and software quality assurance are offered. Potential problems with reference to the main areas of concern for reliability and quality are discussed; e.g. experimental issues, decomposition, scope, fidelity, verification, requirements, testing, correctness, robustness are treated w ...

20 Optimization techniques in high-level synthesis: Unified high-level synthesis and module placement for defect-tolerant microfluidic biochips

Fei Su, Krishnendu Chakrabarty
June 2005 **Proceedings of the 42nd annual conference on Design automation**
Publisher: ACM Press
Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms

Microfluidic biochips promise to revolutionize biosensing and clinical diagnostics. As more bioassays are executed concurrently on a biochip, system integration and design complexity are expected to increase dramatically. This problem is also identified by the 2003 ITRS document as a major system-level design challenge beyond 2009. We focus here on the automated design of droplet-based microfluidic biochips. We present a synthesis methodology that unifies operation scheduling, resource binding, ...

Keywords: biochip, defect tolerance, microfluidics, placement, synthesis

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1 Design automation for microfluidics-based biochips

Krishnendu Chakrabarty, Jun Zeng
October 2005 **ACM Journal on Emerging Technologi es in Computing Systems (JETC)**, Volume 1 Issue 3
Publisher: ACM Press
Full text available: pdf(7.48 MB) Additional Information: full citation, abstract, references, index terms

Advances in microfluidics technology offer exciting possibilities in the realm of enzymatic analysis, DNA analysis, proteomic analysis involving proteins and peptides, immunoassays, implantable drug delivery devices, and environmental toxicity monitoring. Microfluidics-based biochips are therefore gaining popularity for clinical diagnostics and other laboratory procedures involving molecular biology. As more bioassays are executed concurrently on a biochip, system integration and design complexi ...

Keywords: Microfluidics, biochips, design automation

2 Phylogenetically and spatially conserved word pairs associated with gene expression changes in yeasts

Derek Y. Chiang, Alan M. Moses, Manolis Kamvysselis, Eric S. Lander, Michael B. Eisen
April 2003 **Proceedings of the seventh annual international conference on Research in computational molecular biology RECOMB '03**
Publisher: ACM Press
Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, index terms

Background. Transcriptional regulation in eukaryotes is often multifactorial, involving multiple transcription factors binding to the same transcription control region (e.g., upstream activating sequences and enhancers), and to understand the regulatory content of eukaryotic genomes it is necessary to consider the co-occurrence and spatial relationships of individual binding sites. The identification of sequences conserved among related species (often known as phylogenetic footprinting) h ...

Keywords: comparative genomics, multifactorial regulation, phylogenetic footprinting, promoter structure, transcription regulation

3 RAPID: randomized pharmacophore identification for drug design

P. W. Finn, L. E. Kavraki, J.-C. Latombe, R. Motwani, C. Shelton, S. Venkatasubramanian, A. Yao

August 1997 **Proceedings of the thirteenth annual symposium on Computational geometry**
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

4 From informatics to bioinformatics
Vladimir B. Bajic, Vladimir Brusic, Jinyan Li, See-Kiong Ng, Limsoon Wong
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 CRPITS '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(538.23 KB) Additional Information: full citation, abstract, references, index terms

Informatics has helped in launching molecular biology into the genomic era. It appears certain that informatics will continue to be a major factor in the success of molecular biology in the post-genome era. In this paper, we describe advances made in data integration and data mining technologies that are relevant to molecular biology and biomedical sciences. In particular, we discuss some past and present research results on topics such as (a) the taming of autonomous heterogeneous distributed d ...

Keywords: Dragon, FIMM, Kleisli, PCL, PIES, bioinformatics, data integration, data warehousing, epitope prediction, gene expression analysis, protein interaction extraction, transcription start site recognition

5 Discovering the secrets of DNA
Peter Friedland, Laurence H. Kedes
November 1985 **Communications of the ACM**, Volume 28 Issue 11
Publisher: ACM Press
Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, index terms, review

Sophisticated software tools are becoming increasingly important in helping biologists understand how nature operates. Symbolic pattern-recognition and artificial-intelligence methodologies are contributing to the development of such software.

6 PathwayFinder: paving the way towards automatic pathway extraction
Daming Yao, Jingbo Wang, Yanmei Lu, Nathan Noble, Huandong Sun, Xiaoyan Zhu, Nan Lin, Donald G. Payan, Ming Li, Kunbin Qu
January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(455.95 KB) Additional Information: full citation, abstract, references

Automatically mining protein pathway information from the vast amount of published literature has been an increasing need from the pharmaceutical industry and biomedical research community. This task has been proved to be a formidable one. Many systems have been implemented, but few are practical. Some are too restricted and some are overly ambitious. [1]This paper presents the PathwayFinder system with two key innovations that give the system simultaneously generalization power and pra ...

Keywords: multi-agent, natural language processing, pathway extraction, ubiquitin pathway, user-involved extraction

7 A review of vessel extraction techniques and algorithms

Cemil Kirbas, Francis Quek
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
Publisher: ACM Press
Full text available: pdf(8.06 MB) Additional Information: full citation, abstract, references, index terms

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurosvascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

8 Representation of scientific hypotheses for use by the expert system, research assistant: the setup
David J. Weiner, E. Judith Weiner
February 1996 **Proceedings of the 1996 ACM 24th annual conference on Computer science**
Publisher: ACM Press
Full text available: pdf(774.46 KB) Additional Information: full citation, references, index terms

9 Narratives and Literary Hypertext: Graphical notations, narratives and persuasion: a Pliant Systems approach to Hypertext Tool Design
Luke Emmet, George Cleland
June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**
Publisher: ACM Press
Full text available: pdf(356.79 KB) Additional Information: full citation, abstract, references, index terms

The Adelard Safety Case Editor (ASCE) is a hypertext tool for constructing and reviewing structured arguments. ASCE is used in the safety industry, and can be used in many other contexts when graphical presentation can make argument structure, inference or other dependencies explicit. ASCE supports a rich hypertext narrative mode for documenting traditional argument fragments. In this paper we document the motivation for developing the tool and describe its operation and novel features. Since us ...

Keywords: field experience, graphical notation, hypertext argumentation, pliant systems, safety cases, safety related systems, technology adoption, usability

10 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)
July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(6.19 MB) Additional Information: full citation, index terms

11 Computational strategies for object recognition
Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1
Publisher: ACM Press

Full text available: pdf(6.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition

12 Ready. Fire!! Aim???
Jeffrey K. Holtzman
November 1993 **Proceedings of the 11th annual international conference on Systems documentation**
Publisher: ACM Press
Full text available: pdf(1.73 MB) Additional Information: full citation, references, citings, index terms

13 Research track papers: Mining and summarizing customer reviews
Minqing Hu, Bing Liu
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Publisher: ACM Press
Full text available: pdf(232.21 KB) Additional Information: full citation, abstract, references, citings, index terms

Merchants selling products on the Web often ask their customers to review the products that they have purchased and the associated services. As e-commerce is becoming more and more popular, the number of customer reviews that a product receives grows rapidly. For a popular product, the number of reviews can be in hundreds or even thousands. This makes it difficult for a potential customer to read them to make an informed decision on whether to purchase the product. It also makes it difficult for ...

Keywords: reviews, sentiment classification, summarization, text mining

14 Web and e-business application: Dynamically generating web application fragments from page templates
Uwe Zdun
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(900.91 KB) Additional Information: full citation, abstract, references, citings, index terms

Web-based applications are typically required to be highly customizable and configurable. New application requirements have to be introduced rapidly, often without stopping the running application process. Moreover, in many cases the same business logic has to be presented to different channels and/or user interfaces. In this paper we present a dynamic page template architecture for decomposing configurable and representational fragments of the application from the business logic. Page templates ...

Keywords: dynamic software architecture, object-Oriented Scripting, web engineering

15 Panel and workshop reports from KDD-2003: Data mining in bioinformatics: report on BIOKDD'03
Mohammed J. Zaki, Jason T. L. Wang, Hannu T. T. Toivonen
December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(46.01 KB) Additional Information: full citation, references

16 Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

17 Online help: exploring static information or constructing personal and collaborative solutions using hypertext
Dickie Selfe, Stuart Selber, Dan McGavin, Johndan Johnson-Eilola, Carol Brown
November 1992 **Proceedings of the 10th annual international conference on Systems documentation**
Publisher: ACM Press
Full text available: pdf(648.95 KB) Additional Information: full citation, references, citings, index terms

18 Evaluating the technologies: the Message Understanding Conferences (MUC): Overview of results of the MUC-6 evaluation
Beth M. Sundheim
May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**
Publisher: Association for Computational Linguistics
Full text available: pdf(1.60 MB) Additional Information: full citation, abstract, references

The latest in a series of natural language processing system evaluations was concluded in October 1995 and was the topic of the Sixth Message Understanding Conference (MUC-6) in November. Participants were invited to enter their systems in as many as four different task-oriented evaluations. The Named Entity and Coreference tasks entailed Standard Generalized Markup Language (SGML) annotation of texts and were being conducted for the first time. The other two tasks, Template Element and Scenario ...

19 Evaluation: Overview of results of the MUC-6 evaluation
Beth M. Sundheim
November 1993 **Proceedings of the 6th conference on Message understanding MUC6**

'95

Publisher: Association for Computational Linguistics

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references

The latest in a series of natural language processing system evaluations was concluded in October 1995 and was the topic of the Sixth Message Understanding Conference (MUC-6) in November. Participants were invited to enter their systems in as many as four different task-oriented evaluations. The Named Entity and Coreference tasks entailed Standard Generalized Markup Language (SGML) annotation of texts and were being conducted for the first time. The other two tasks, Template Element and Scenario ...

20 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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1 Predicting environmental restoration activities through static simulation
Terry L. Ross, Dale A. King, Mark L. Wilkins, Mary F. Forward
December 1994 **Proceedings of the 26th conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(675.74 KB) Additional Information: full citation, references, index terms

2 The quality of a scientific simulation
G. R. Sherman
April 1984 **ACM SIGSIM Simulation Digest**, Volume 15 Issue 3
Publisher: ACM Press
Full text available: pdf(362.97 KB) Additional Information: full citation, abstract, references

Demonstrable high quality of a simulation of the disposal of nuclear fuel waste is crucial for the assessment of the disposal concept. The elements of quality are described, as pertaining to models of the controlling processes, data interpreted from field and laboratory measurements, and computer software representing the models.Procedures for quality assurance and features that enhance quality are discussed. Two major factors are identified: comparison and critical review. Simulation data and r ...

3 Knowledge-based search tactics for an intelligent intermediary system
Philip J. Smith, Steven J. Shute, Beb Galdes, Mark H. Chignell
July 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 3
Publisher: ACM Press
Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research on the nature of knowledge-based systems for bibliographic information retrieval is summarized. Knowledge-based search tactics are then considered in terms of their role in the functioning of a semantically based search system for bibliographic information retrieval, EP-X. This system uses such tactics to actively assist users in defining or refining their topics of interest. It does so by applying these tactics to a knowledge base describing topics in a particular domain and to a ...

4 Uncertainty and sensitivity studies of models of environmental systems
E. Marian Scott
November 1996 **Proceedings of the 28th conference on Winter simulation**



Publisher: ACM Press
Full text available: pdf(474.65 KB) Additional Information: full citation, references, citings

5 Logistics/transportation applications: Simulation of large supply chains: simulation of waste processing, transportation, and disposal operations

Janis Trone, Angela Guerin, Amber D. Clay
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(268.77 KB) Additional Information: full citation, abstract, references, citings

In response to the accelerated cleanup goals of the Department of Energy, Sandia National Laboratory (Sandia) has developed and utilized a number of simulation models to represent the processing, transportation, and disposal of radioactive waste. Sandia, in conjunction with Simulation Dynamics, has developed a Supply Chain model of the cradle to grave management of radioactive waste. Sandia has used this model to assist the Department of Energy in developing a cost effective, regulatory complian ...

6 The impact of query structure and query expansion on retrieval performance



Jaana Kekäläinen, Kalervo Järvelin
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

7 Logistics/transportation applications: Simulation of logistics systems: simulation model for shipment of waste to the waste isolation pilot plant

Cathy J. Barnard, David H. Van Haaften
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(224.35 KB) Additional Information: full citation, abstract

The United States Department of Energy has agreed to ship 15,000 drums of cold war legacy waste from the Idaho National Engineering and Environmental Laboratory (INEEL) to the Waste Isolation Pilot Plant (WIPP). This waste must undergo characterization and certification prior to shipment. The processes required to characterize and certify waste for shipment to WIPP are extremely complex. A simulation model was developed to analyze drum throughput in these various processes. Inputs to the model i ...

8 Model reliability and software quality assurance in simulation of nuclear fuel waste management systems



Tuncer I. Ören, Maurice S. Elzas, Grant Sheng
October 1985 **ACM SIGSIM Simulation Digest**, Volume 16 Issue 4
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references

As is the case with all scientific simulation studies, computerized simulation of nuclear fuel waste management systems can introduce and hide various types of errors. Frameworks to clarify issues of model reliability and software quality assurance are offered. Potential problems with reference to the main areas of concern for reliability and quality are discussed; e.g. experimental issues, decomposition, scope, fidelity, verification, requirements, testing, correctness, robustness are treated w ...

9 Analysis of titles and readers: for title generation centered on the readers

Yasuko Senda, Yasusi Sinohara

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1**

Publisher: Association for Computational Linguistics

Full text available: pdf(113.71 KB) Additional Information: full citation, abstract, references

The title of a document has two roles, to give a compact summary and to lead the reader to read the document. Conventional title generation focuses on finding key expressions from the author's wording in the document to give a compact summary and pays little attention to the reader's interest. To make the title play its second role properly, it is indispensable to clarify the content ("what to say") and wording ("how to say") of titles that are effective to attract the target reader's interest. ...

10 In search of knowledge-based search tactics

P. J. Smith, S. J. Shute, D. Galdes

May 1989 **ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '89**, Volume 23 Issue SI

Publisher: ACM Press

Full text available: pdf(658.48 KB) Additional Information: full citation, abstract, references, citings, index terms

Knowledge-based search tactics are discussed in terms of their role in the functioning of a semantically-based search system for bibliographic information retrieval. This prototype system, EP-X, actively assists users in defining or refining their topics of interest. It does so by applying search tactics to a knowledge-base describing topics in a particular domain and a database describing the contents of individual documents.

This paper reviews the empirical studies that lead to the ...

11 EP-X: a demonstration of semantically based search of bibliographic databases

D. Krawczak, P. Smith, S. Shute

November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(700.42 KB) Additional Information: full citation, abstract, references, citings, index terms

EP-X (Environmental Pollution eXpert) is a prototype knowledge-based system that assists users in conducting bibliographic searches of the environmental pollution literature. This system combines artificial intelligence and human factors engineering techniques, allowing us to redesign traditional bibliographic information retrieval interfaces. The result supports semantically-based search as opposed to the typical character-string matching approach. This paper discusses a ...

12 Concurrent information processing, I: an applications overview

Robert J. Jannarone

September 1993 **ACM SIGAPP Applied Computing Review**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(547.98 KB) Additional Information: full citation, abstract, index terms

Concurrent information processing (CIP) neurocomputing systems learn, monitor, and perform automatically, from quickly arriving information. CIP applications include adaptive process control, adaptive health advisory systems, online computer glitch detection, adaptive quality monitoring, and other settings where automatic learning, monitoring, and

performing must keep pace with rapidly arriving data. Sequential CIP rates range from .3 milliseconds per 16-feature record to 1 second per 1,000-feat ...

Keywords: adaptive expert systems, adaptive quality assessment, concurrent learning, concurrent signal detection

13 Risks to the public in computer systems

Peter G. Neumann

October 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 5

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: full citation, index terms

14 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.54 MB) Additional Information: full citation

15 Modeling input processes

Ronald L. Iman

December 1986 **Proceedings of the 18th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(467.35 KB) Additional Information: full citation, abstract, references, index terms

Computer models for various applications are closely scrutinized both from the standpoint of questioning the correctness of the underlying mathematical model with respect to the process it is attempting to model, and from the standpoint of verifying that the computer model correctly implements the underlying mathematical model. A process that receives less scrutiny, but is none the less of equal importance, concerns the individual and joint modeling of the inputs. This modeling effort clear ...

16 Server performance and scalability: A smart hill-climbing algorithm for application server configuration

Bowei Xi, Zhen Liu, Mukund Raghavachari, Cathy H. Xia, Li Zhang

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(373.43 KB) Additional Information: full citation, abstract, references, index terms

The overwhelming success of the Web as a mechanism for facilitating information retrieval and for conducting business transactions has ledto an increase in the deployment of complex enterprise applications. These applications typically run on Web Application Servers, which assume the burden of managing many tasks, such as concurrency, memory management, database access, etc., required by these applications. The performance of an Application Server depends heavily on appropriate configuration. Co ...

Keywords: automatic tuning, gradient method, importance sampling, simulated annealing, system configuration

17 Software safety: why, what, and how

Nancy G. Leveson
June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(4.18 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

18 Five-stage procedure for the evaluation of simulation models through statistical techniques
Jack P. C. Kleijnen
November 1996 **Proceedings of the 28th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(705.37 KB) Additional Information: full citation, references, citings

19 Merging multiple perspectives in groupware use: intra- and intergroup conventions
Gloria Mark
November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge**
Publisher: ACM Press
Full text available: pdf(1.52 MB) Additional Information: full citation, references, citings, index terms

Keywords: CSCW, conventions, groupware, intergroup, shared workspace

20 Geometric algorithms for the analysis of 2D-electrophoresis gels
Alon Efrat, Frank Hoffman, Klaus Kriegel, Christof Schultz, Carola Wenk
April 2001 **Proceedings of the fifth annual international conference on Computational biology**
Publisher: ACM Press
Full text available: pdf(925.85 KB) Additional Information: full citation, abstract, references, citings, index terms

In proteomics 2-dimensional gel electrophoresis (2-DE) is a separation technique for proteins. The resulting protein spots can be identified by either using picking robots and subsequent mass spectrometry or by visual cross inspection of a new gel image with an already analyzed master gel. Difficulties especially arise from inherent noise and irregular geometric distortions in 2-DE images. Aiming at the automated analysis of large series of 2-DE images, or at the even more difficult interlabo ...

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1 External memory algorithms and data structures: dealing with **massive data**

Jeffrey Scott Vitter
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM Press

Full text available: pdf(828.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

2 Semantic Road Maps for Literature Searchers

Lauren B. Doyle
October 1961 **Journal of the ACM (JACM)**, Volume 8 Issue 4
Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms

3 Parallel algorithms for the execution of relational database operations

Dina Bitton, Haran Boral, David J. DeWitt, W. Kevin Wilkinson
September 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 3
Publisher: ACM Press

Full text available: pdf(2.07 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents and analyzes algorithms for parallel processing of relational database operations in a general multiprocessor framework. To analyze alternative algorithms, we introduce an analysis methodology which incorporates I/O, CPU, and message costs and which can be adjusted to fit different multiprocessor architectures. Algorithms are

presented and analyzed for sorting, projection, and join operations. While some of these algorithms have been presented and analyzed previously, we ...

Keywords: aggregate operations, database machines, join operation, parallel processing, projection operator, sorting

4 Value conflicts and social choice in electronic funds transfer system developments

Rob Kling
August 1978 **Communications of the ACM**, Volume 21 Issue 8
Publisher: ACM Press

Full text available: pdf(2.01 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last few years, computer-based systems which automate the transfer and recording of debits and credits have begun to be implemented on a large scale. These systems promise both financial benefits for the institutions that use them and potential conveniences to their customers. However, they also raise significant social, legal, and technical questions that must be resolved if full scale systems for Electronic Funds Transfer (EFT) are not to cause more problems for the larger publ ...

Keywords: computer networks, electronic funds transfer systems, network reliability, privacy, security, social choice, social impacts of computing, social values

5 On the economics of mass-marketed software

Richard J. Botting
May 1997 **Proceedings of the 19th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(684.84 KB) Additional Information: full citation, references, index terms

Keywords: cost, economic models, market size, price, quality

6 Curriculum recommendations for graduate professional programs in information systems

May 1972 **Communications of the ACM**, Volume 15 Issue 5
Publisher: ACM Press
Full text available: pdf(4.00 MB) Additional Information: full citation, references, citings

Keywords: education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

7 Papers Presented at Williamsburg Workshop: Value conflicts and social choice in electronic funds transfer system developments

Rob Kling
July 1981 **ACM SIGCAS Computers and Society**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: pdf(2.26 MB) Additional Information: full citation, references

8 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB) Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

9 The family of concurrent logic programming languages

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citings, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

10 Time-sharing and batch-processing: an experimental comparison of their values in a problem-solving situation

Michael M. Gold

May 1969 **Communications of the ACM**, Volume 12 Issue 5

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms

An experimental comparison of problem-solving using time-sharing and batch-processing computer systems conducted at MIT is described in this paper. This study is the first known attempt to evaluate two such systems for what may well be the predominant user population within the next decade—the professionals who, as nonprogrammers, are using the computer as an aid in decision-making and problem-solving rather than as a programming end in itself. Statistically and logically s ...

Keywords: cost effectiveness, decision making performance, man/machine communications, man/machine symbiosis, on-line vs. off-line performance, problem-solving, programming experimental empirical studies, research in man/machine communications, time-sharing vs. batch-processing, user performance, user/programming behavior

11 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young
March 1968 **Communications of the ACM**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: pdf(6.63 MB) Additional Information: full citation, references, citings

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

12 Mass market computers for software development

W. Morven Gentleman, Marceli Wein
May 1991 **Proceedings of the 1991 ACM SIGSMALL/PC symposium on Small systems**
Publisher: ACM Press
Full text available: pdf(806.11 KB) Additional Information: full citation, references, index terms

13 Curriculum recommendations for undergraduate programs in information systems

J. Daniel Couger
December 1973 **Communications of the ACM**, Volume 16 Issue 12
Publisher: ACM Press
Full text available: pdf(3.23 MB) Additional Information: full citation, references, citings

Keywords: education, information analysis, information systems, management systems, systems analysis, systems design, undergraduate curricula

14 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

15 A cache filtering optimisation for queries to massive datasets on tertiary storage

Koen Holtman, Peter van der Stok, Ian Willers
November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(889.74 KB) Additional Information: full citation, abstract, references, index terms

We consider a system in which many users run queries to examine subsets of a large

object set. The object set is partitioned into files on tape. A single subset of objects will be visited by multiple queries in the workload. This locality of access creates the opportunity for caching on disk. We introduce and evaluate a novel optimisation, cache filtering, in which the 'hot' objects are automatically extracted from the files that are staged on disk, and then cached separately in new files o ...

16 TQM for technical teams

Richard E. Zultner
October 1993 **Communications of the ACM**, Volume 36 Issue 10
Publisher: ACM Press
Full text available: pdf(4.74 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: total quality management

17 Formal Models for Computer Security

Carl E. Landwehr
September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3
Publisher: ACM Press
Full text available: pdf(2.98 MB) Additional Information: full citation, references, citings, index terms

18 Collision detection and proximity queries

Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(11.22 MB) Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

19 Computational Approaches to Image Understanding

Michael Brady
March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: pdf(10.04 MB) Additional Information: full citation, references, citings, index terms

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Darren Reed
March 2004 **interactions**, Volume 11 Issue 2
Publisher: ACM Press
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